

WEST Search History

[Hide Items](#)[Restore](#)[Clear](#)[Cancel](#)

DATE: Friday, January 06, 2006

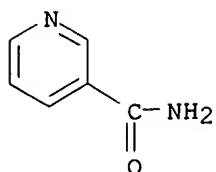
Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>
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		<i>DB=PGPB,USPT,EPAB; PLUR=YES; OP=OR</i>
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- | | | |
|--------------------------|-----|----------------------------------------------------------------------------------|
| <input type="checkbox"/> | L19 | L17 and L12 |
| <input type="checkbox"/> | L18 | L17 and L11 |
| <input type="checkbox"/> | L17 | L4 and L5 |
| <input type="checkbox"/> | L16 | (L4 and L5)! [CCLS] |
| <input type="checkbox"/> | L15 | (L4 and L5) [CCLS] |
| <input type="checkbox"/> | L14 | L13 and prodrug |
| <input type="checkbox"/> | L13 | L12 and L11 |
| <input type="checkbox"/> | L12 | NRH |
| <input type="checkbox"/> | L11 | NQO2 |
| <input type="checkbox"/> | L10 | L5 and L9 |
| <input type="checkbox"/> | L9 | L8 or L7 |
| <input type="checkbox"/> | L8 | (424/78.14)! [CCLS] |
| <input type="checkbox"/> | L7 | (514/183 514/485)! [CCLS] |
| <input type="checkbox"/> | L6 | carboxamidomethyl adj dihydronicotinamide |
| <input type="checkbox"/> | L5 | CB1954 or (CB-1954) or (CB 1954) |
| <input type="checkbox"/> | L4 | knox.in. |
| <input type="checkbox"/> | L3 | knox |
| <input type="checkbox"/> | L2 | burke.in. |
| <input type="checkbox"/> | L1 | ("4440859" "4530901" "4582800" "4677063" "4678751" "4704362" "4710463" "4757006" |

END OF SEARCH HISTORY

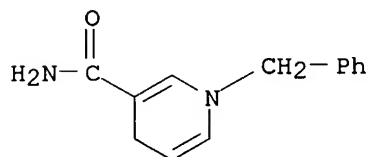
RN 98-92-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide (8CI)
 OTHER NAMES:
 CN β -Pyridinecarboxamide
 CN 3-(Aminocarbonyl)pyridine
 CN 3-Amidopyridine
 CN 3-Carbamoylpyridine
 CN 3-Pyridinecarboxylic acid amide
 CN Aminicotin
 CN Benicot
 CN Delonin Amide
 CN Dipegyl
 CN m-(Aminocarbonyl)pyridine
 CN NAM
 CN Niacinamide
 CN Niavit PP
 CN Nicamina
 CN Nicamindon
 CN Nicasir
 CN Nicobion
 CN Nicofort
 CN Nicosan 2
 CN Nicosylamide
 CN Nicotilamide
 CN Nicotine acid amide
 CN Nicotinic acid amide
 CN Nicotinic amide
 CN Nicotylamide
 CN Nicovit
 CN Nicovitina
 CN Nictoamide
 CN Niocinamide
 CN Niozymin
 CN NSC 13128
 CN NSC 27452
 CN Papulex
 CN Pelmin
 CN Pelmine
 CN Pelonin amide
 CN Vi-Nicotyl
 CN Vitamin B
 CN Vitamin B3
 FS 3D CONCORD
 DR 123574-63-0, 37321-14-5, 78731-47-2
 MF C6 H6 N2 O
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
 CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
 CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
 NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS*, SPECINFO,
 TOXCENTER, USAN, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9025 REFERENCES IN FILE CA (1907 TO DATE)
402 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9036 REFERENCES IN FILE CAPLUS (1907 TO DATE)
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

N 952-92-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(phenylmethyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1-benzyl-1,4-dihydro- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 1,4-Dihydro-1-(phenylmethyl)-3-pyridinecarboxamide
 CN 1,4-Dihydro-N-benzylnicotinamide
 CN 1-Benzyl-1,4-dihydronicotinamide
 CN 1-Benzyl-3-carbamido-1,4-dihydropyridine
 CN 1-Benzyl-3-carbamoyl-1,4-dihydropyridine
 CN BNAH
 CN N-Benzyl-1,4-dihydronicotinamide
 CN N-Benzyl-3-carbamoyl-1,4-dihydropyridine
 CN N-Benzyl-1,4-dihydronicotinamide
 CN NSC 26899
 FS 3D CONCORD
 DR 174307-50-7, 84062-23-7
 MF C13 H14 N2 O
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, PIRA, PROMT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

582 REFERENCES IN FILE CA (1907 TO DATE)
 10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 582 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 31 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

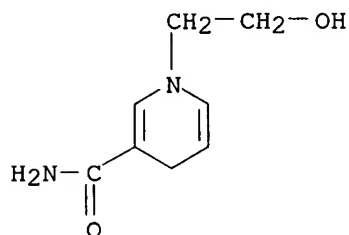
RN **9037-41-6** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Reductase, nitro- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2,4,6-Trinitrotoluene nitroreductase
 CN 3-Nitrophenol reductase
 CN 4-Nitrobiphenyl reductase
 CN Aromatic nitroreductase
 CN Dinitropyrene nitroreductase
 CN Nitrobenzene nitroreductase
 CN Nitrobenzene reductase
 CN Nitrobenzoic acid reductase
 CN Nitrophenol reductase
 CN Nitroreductase
 CN Nitroreductase (NADH)
 CN PETN reductase
 CN TNT nitroreductase
 MF Unspecified
 CI MAN
 LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CEN, CIN, EMBASE, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

663 REFERENCES IN FILE CA (1907 TO DATE)
 11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 666 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 27 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **7145-37-1** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1,4-dihydro-1-(2-hydroxyethyl)- (7CI, 8CI)
 OTHER NAMES:
 CN NSC 74259
 FS 3D CONCORD
 MF C8 H12 N2 O2
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

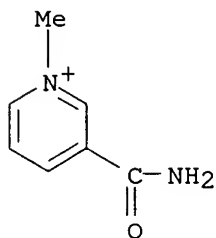


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 28 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 6456-44-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Pyridinium, 3-(aminocarbonyl)-1-methyl-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3-Carbamoyl-1-methylpyridinium iodide (6CI, 7CI)
 CN Pyridinium, 3-carbamoyl-1-methyl-, iodide (8CI)
 CN Pyridinium, 3-carbamyl-1-methyl-, iodide (4CI)
 OTHER NAMES:
 CN 1-Methylnicotinamide iodide
 CN Nicotinamide methiodide
 MF C7 H9 N2 O . I
 SR CAS EARLY REGISTRATIONS
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CS-
 SCHEM, GMELIN*, RTECS*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (3106-60-3)

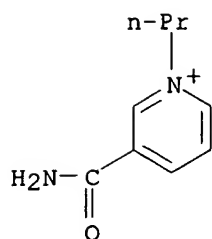


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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

104 REFERENCES IN FILE CA (1907 TO DATE)
 104 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 29 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 5463-59-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Pyridinium, 3-(aminocarbonyl)-1-propyl-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3-Carbamoyl-1-propylpyridinium iodide (6CI, 7CI)
 CN Pyridinium, 3-carbamoyl-1-propyl-, iodide (8CI)
 MF C9 H13 N2 O . I
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, HODOC*, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 CRN (13309-33-6)

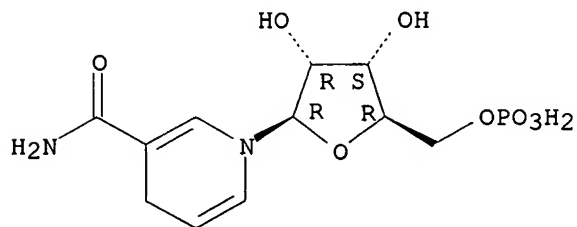


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18 REFERENCES IN FILE CA (1907 TO DATE)
 18 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 30 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 4229-56-5 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1,4-dihydro-1-β-D-ribofuranosyl-, 5'-(dihydrogen phosphate) (8CI)
 CN Nicotinamide, 1,4-dihydro-1-β-D-ribofuranosyl-, 5'-phosphate (7CI)
 OTHER NAMES:
 CN β-NMNH
 CN 1,4-Dihydronicotinamide mononucleotide
 CN 1,4-Dihydronicotinamide ribonucleotide
 CN Nicotinamide ribonucleotide, reduced
 CN NMNH
 CN NMNH2
 CN Reduced nicotinamide mononucleotide
 CN Reduced nicotinamide ribonucleotide
 FS STEREOSEARCH
 MF C11 H17 N2 O8 P
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, CA, CAOLD, CAPLUS, CEN, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

77 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

77 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

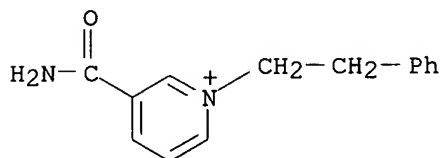
N 667919-86-0 REGISTRY
ED Entered STN: 26 Mar 2004
CN Dehydrogenase, reduced nicotinamide riboside (quinone) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dihyronicotinamide riboside quinone oxidoreductase 2
CN Dihyronicotinamide riboside quinone reductase 2
CN Dihyronicotinamide riboside:quinone oxidoreductase
CN NQO2 oxidoreductase
CN NRH:quinone oxidoreductase
CN Reduced nicotinamide riboside (quinone) dehydrogenase
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

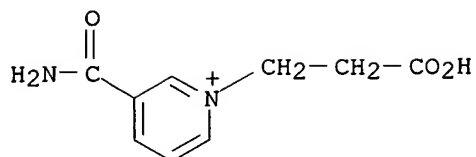
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
35 REFERENCES IN FILE CA (1907 TO DATE)
35 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 2 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 218443-93-7 REGISTRY
ED Entered STN: 29 Jan 1999
CN Pyridinium, 3-(aminocarbonyl)-1-(2-phenylethyl)-, iodide (9CI) (CA INDEX NAME)
MF C14 H15 N2 O . I
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (761385-40-4)



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

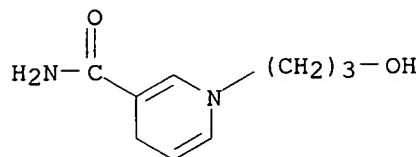
L6 ANSWER 3 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 218443-92-6 REGISTRY
ED Entered STN: 29 Jan 1999
CN Pyridinium, 3-(aminocarbonyl)-1-(2-carboxyethyl)-, iodide (9CI) (CA INDEX NAME)
MF C9 H11 N2 O3 . I
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (717820-87-6)



● I⁻

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

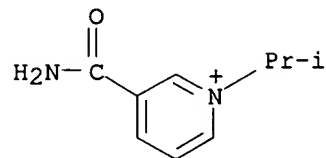
L6 ANSWER 4 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **218443-91-5** REGISTRY
ED Entered STN: 29 Jan 1999
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H14 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

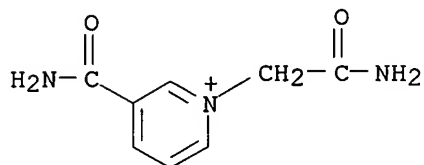
L6 ANSWER 5 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **218443-90-4** REGISTRY
ED Entered STN: 29 Jan 1999
CN Pyridinium, 3-(aminocarbonyl)-1-(1-methylethyl)-, bromide (9CI) (CA INDEX NAME)
MF C9 H13 N2 O . Br
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (745779-44-6)



● Br⁻

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

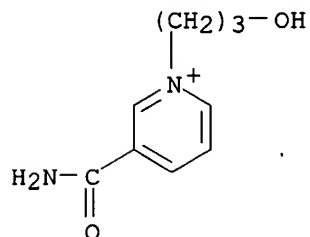
L6 ANSWER 6 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **218443-88-0** REGISTRY
ED Entered STN: 29 Jan 1999
CN Pyridinium, 3-(aminocarbonyl)-1-(2-amino-2-oxoethyl)-, iodide (9CI) (CA INDEX NAME)
MF C8 H10 N3 O2 . I
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (66822-26-2)



● I⁻

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 7 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **126298-92-8** REGISTRY
ED Entered STN: 06 Apr 1990
CN Pyridinium, 3-(aminocarbonyl)-1-(3-hydroxypropyl)-, bromide (9CI) (CA INDEX NAME)
MF C9 H13 N2 O2 . Br
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (83643-85-0)

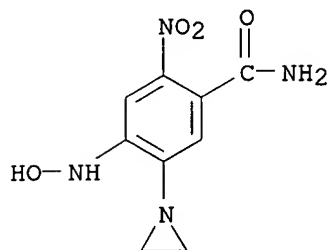


● Br⁻

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 8 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **119643-82-2** REGISTRY
ED Entered STN: 17 Mar 1989
CN Benzamide, 5-(1-aziridinyl)-4-(hydroxyamino)-2-nitro- (9CI) (CA INDEX

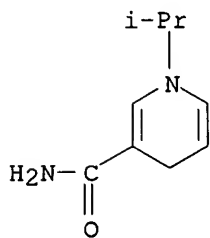
NAME)
FS 3D CONCORD
MF C9 H10 N4 O4
SR CA
LC STN Files: CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

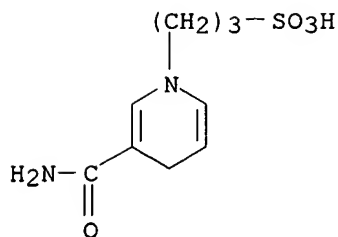
L6 ANSWER 9 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 115503-79-2 REGISTRY
ED Entered STN: 30 Jul 1988
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(1-methylethyl)- (9CI) (CA INDEX
NAME)
FS 3D CONCORD
MF C9 H14 N2 O
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

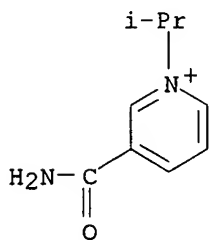
L6 ANSWER 10 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 114554-11-9 REGISTRY
ED Entered STN: 21 May 1988
CN 1(4H)-Pyridinepropanesulfonic acid, 3-(aminocarbonyl)- (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN 1(4H)-Pyridinepropanesulfonic acid, 3-carbamoyl- (6CI)
FS 3D CONCORD
MF C9 H14 N2 O4 S
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

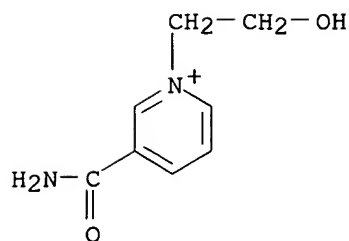
L6 ANSWER 11 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **109942-74-7** REGISTRY
 ED Entered STN: 22 Aug 1987
 CN Pyridinium, 3-(aminocarbonyl)-1-(1-methylethyl)-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3-Carbamoyl-1-isopropylpyridinium iodide (6CI)
 MF C9 H13 N2 O . I
 SR CAOLD
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 CRN (745779-44-6)



● I⁻

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

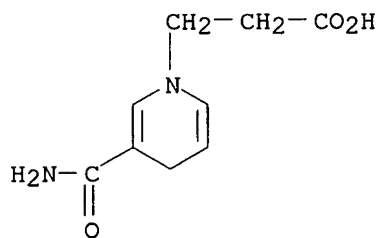
L6 ANSWER 12 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **106047-77-2** REGISTRY
 ED Entered STN: 10 Jan 1987
 CN Pyridinium, 3-(aminocarbonyl)-1-(2-hydroxyethyl)-, iodide (9CI) (CA INDEX NAME)
 MF C8 H11 N2 O2 . I
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (66822-21-7)



● I⁻

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

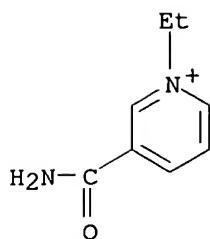
L6 ANSWER 13 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 99362-74-0 REGISTRY
ED Entered STN: 07 Dec 1985
CN 1(4H)-Pyridinepropanoic acid, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1(4H)-Pyridinepropionic acid, 3-carbamoyl- (6CI)
FS 3D CONCORD
MF C9 H12 N2 O3
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

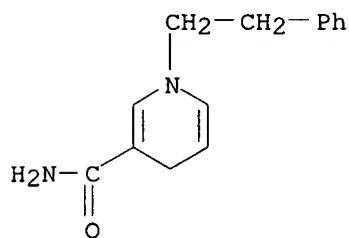
L6 ANSWER 14 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 97009-81-9 REGISTRY
ED Entered STN: 01 Jul 1985
CN Pyridinium, 3-(aminocarbonyl)-1-ethyl-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Carbamoyl-1-ethylpyridinium iodide (6CI)
CN Pyridinium, 3-carbamyl-1-ethyl-, iodide (4CI)
MF C8 H11 N2 O . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
CRN (71413-64-4)



● I⁻

12 REFERENCES IN FILE CA (1907 TO DATE)
 12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

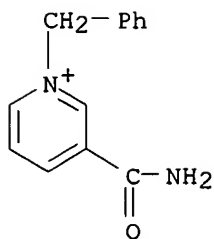
L6 ANSWER 15 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 89080-16-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(2-phenylethyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H16 N2 O
 LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 16 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 72306-81-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Pyridinium, 3-(aminocarbonyl)-1-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Benzyl-3-carbamoylpyridinium iodide (6CI, 7CI)
 MF C13 H13 N2 O . I
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 CRN (16183-83-8)

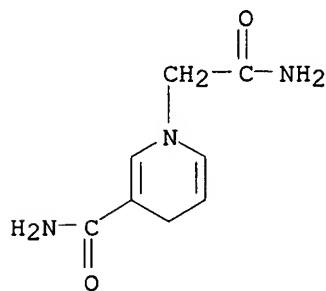


● I⁻

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 17 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **64881-21-6** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 1(4H)-Pyridineacetamide, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1-Carbamoylmethyl-1,4-dihydronicotinamide
 CN Caricotamide
 CN EP 0152R
 FS 3D CONCORD
 MF C8 H11 N3 O2
 LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

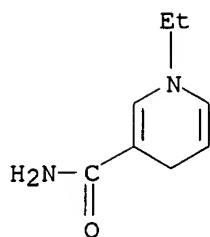


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
 9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 18 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **58880-44-7** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1-ethyl-1,4-dihydro- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN N-Ethyl-1,4-dihydronicotinamide
 FS 3D CONCORD
 MF C8 H12 N2 O
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 19 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN **52047-79-7** REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 3-(aminocarbonyl)-1-propyl-, bromide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyridinium, 3-carbamoyl-1-propyl-, bromide (6CI)

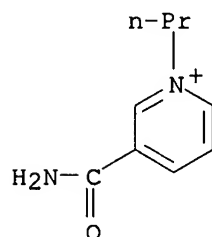
OTHER NAMES:

CN 3-Carbamoyl-1-propylpyridinium bromide

MF C9 H13 N2 O . Br

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

CRN (13309-33-6)



● Br⁻

15 REFERENCES IN FILE CA (1907 TO DATE)

15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 20 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN **51652-08-5** REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 3-(aminocarbonyl)-1-(3-sulfopropyl)-, inner salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Carbamoyl-1-(3-sulfopropyl)pyridinium hydroxide, inner salt (6CI)

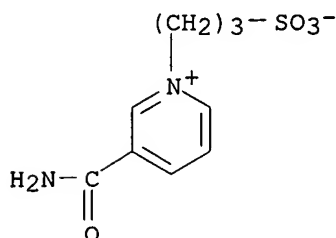
CN Pyridinium, 3-(aminocarbonyl)-1-(3-sulfopropyl)-, hydroxide, inner salt

FS 3D CONCORD

MF C9 H12 N2 O4 S

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, MSDS-OHS,

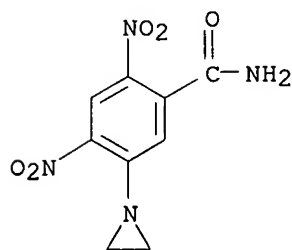
TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
 11 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 21 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **21919-05-1** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzamide, 5-(1-aziridinyl)-2,4-dinitro- (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2,4-Dinitro-5-ethyleneiminobenzamide
 CN 2,4-Dinitroethyleneiminobenzamide
 CN 5-(1-Aziridinyl)-2,4-dinitrobenzamide
 CN 5-Aziridino-2,4-dinitrobenzamide
 CN 5-Aziridinyl-2,4-dinitrobenzamide
 CN CB 1954
 CN NSC 115829
 CN Tretazicar
 MF C9 H8 N4 O5
 LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CIN, DDFU, DRUGU,
 EMBASE, IMSDRUGNEWS, IMSRESEARCH, MEDLINE, PROMT, PROUSDDR, RTECS*,
 TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

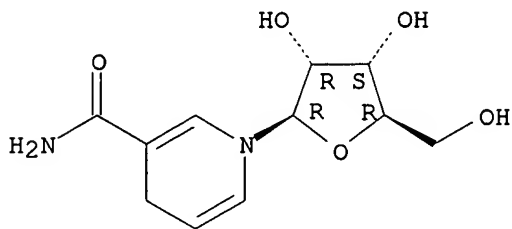


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

168 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 169 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 22 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **19132-12-8** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1- β -D-ribofuranosyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1,4-dihydro-1- β -D-ribofuranosyl- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN β -Reduced nicotinamide ribonucleoside
 CN Reduced nicotinamide riboside
 FS STEREOSEARCH
 MF C11 H16 N2 O5
 CI COM
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

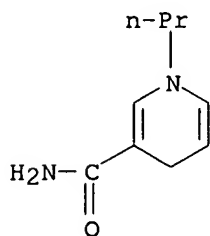
Absolute stereochemistry.



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

16 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 16 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

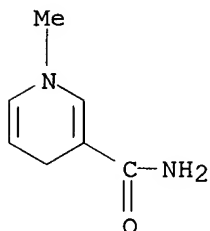
L6 ANSWER 23 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **17750-24-2** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-propyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1,4-dihydro-1-propyl- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 1,4-Dihydro-N1-propylnicotinamide
 CN 1-n-Propyl-1,4-dihydronicotinamide
 CN 1-Propyl-1,4-dihydronicotinamide
 CN N-Propyldihydronicotinamide
 CN N1-(n-Propyl)-1,4-dihydronicotinamide
 FS 3D CONCORD
 MF C9 H14 N2 O
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, HODOC*,
 TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

95 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
95 REFERENCES IN FILE CAPLUS (1907 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 24 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 17750-23-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Nicotinamide, 1,4-dihydro-1-methyl- (6CI, 8CI)
OTHER NAMES:
CN 1,4-Dihydro-1-methylnicotinamide
CN 1,4-Dihydro-N-methylnicotinamide
CN 1-Methyl-1,4-dihydronicotinamide
CN 3-Carbamoyl-1,4-dihydro-1-methylpyridine
CN N-Methyl-1,4-dihydronicotinamide
FS 3D CONCORD
MF C7 H10 N2 O
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
CHEMCATS, IFICDB, IFIPAT, IFIUDB, MEDLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS	4	OCT 03	MATHDI removed from STN
NEWS	5	OCT 04	CA/CAPLUS-Canadian Intellectual Property Office (CIPO) added to core patent offices
NEWS	6	OCT 13	New CAS Information Use Policies Effective October 17, 2005
NEWS	7	OCT 17	STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAPLUS documents for use in third-party analysis and visualization tools
NEWS	8	OCT 27	Free KWIC format extended in full-text databases
NEWS	9	OCT 27	DIOGENES content streamlined
NEWS	10	OCT 27	EPFULL enhanced with additional content
NEWS	11	NOV 14	CA/CAPLUS - Expanded coverage of German academic research
NEWS	12	NOV 30	REGISTRY/ZREGISTRY on STN(R) enhanced with experimental spectral property data
NEWS	13	DEC 05	CASREACT(R) - Over 10 million reactions available
NEWS	14	DEC 14	2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS	15	DEC 14	2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS	16	DEC 14	CA/CAPLUS to be enhanced with updated IPC codes
NEWS	17	DEC 16	MARPATprev will be removed from STN on December 31, 2005
NEWS	18	DEC 21	IPC search and display fields enhanced in CA/CAPLUS with the IPC reform
NEWS	19	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/USPAT2
NEWS EXPRESS			JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT http://download.cas.org/express/v8.0-Discover/
NEWS DCOST			SINCE APPROXIMATELY 20:00 COLUMBUS TIME DECEMBER 29, SOME ONLINE COST DISPLAYS HAVE BEEN SHOWING COSTS IN 2006 PRICES FOR STN COLUMBUS FILES. THIS HAS BEEN CORRECTED. PLEASE BE ASSURED THAT YOU WILL BE BILLED ACCORDING TO 2005 PRICES UNTIL JAN 1. PLEASE CONTACT YOUR LOCAL HELP DESK IF YOU HAVE ANY QUESTIONS. WE APOLOGIZE FOR THE ERROR.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:03:45 ON 03 JAN 2006

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

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FILE COVERS 1907 - 3 Jan 2006 VOL 144 ISS 2

FILE LAST UPDATED: 2 Jan 2006 (20060102/ED)

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<http://www.cas.org/infopolicy.html>

=> s us 20030086933/pn

L1 1 US 20030086933/PN
(US20030086933/PN)

=> s rn

20124 RN
634 RNS
L2 20735 RN
(RN OR RNS)

=> s CB () 1954

12173 CB
3804 CBS
15668 CB
(CB OR CBS)
8226 1954
L3 93 CB (W) 1954

=> s l3 and l2

L4 0 L3 AND L2

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
----------------------	------------	-------

	ENTRY	SESSION
FULL ESTIMATED COST	8.72	8.93

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006
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STRUCTURE FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7
DICTIONARY FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s 12

	2889 RN
	15 RNS
L5	2902 RN
	(RN OR RNS)

=> file caplus

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.20	14.13

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006
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FILE COVERS 1907 - 3 Jan 2006 VOL 144 ISS 2
FILE LAST UPDATED: 2 Jan 2006 (20060102/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> d his

(FILE 'HOME' ENTERED AT 16:03:45 ON 03 JAN 2006)

FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

L1 1 S US 20030086933/PN
L2 20735 S RN
L3 93 S CB () 1954
L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006

L5 2902 S L2

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006

=> sel rn l1

E1 THROUGH E45 ASSIGNED

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.54	14.67

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006

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STRUCTURE FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7

DICTIONARY FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
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Structure search iteration limits have been increased. See HELP SLIMITS

for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s el-e45

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1 19132-12-8/BI
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1 21919-05-1/BI
  (21919-05-1/RN)
1 100-39-0/BI
  (100-39-0/RN)
1 106-94-5/BI
  (106-94-5/RN)
1 106047-77-2/BI
  (106047-77-2/RN)
1 107-08-4/BI
  (107-08-4/RN)
1 109942-74-7/BI
  (109942-74-7/RN)
1 1120-71-4/BI
  (1120-71-4/RN)
1 114554-11-9/BI
  (114554-11-9/RN)
1 115503-79-2/BI
  (115503-79-2/RN)
1 119643-82-2/BI
  (119643-82-2/RN)
1 126298-92-8/BI
  (126298-92-8/RN)
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  (141-76-4/RN)
1 144-48-9/BI
  (144-48-9/RN)
1 17376-04-4/BI
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1 17750-23-1/BI
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  (17750-24-2/RN)
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 1 75-26-3/BI
 (75-26-3/RN)
 1 75-30-9/BI
 (75-30-9/RN)
 1 89080-16-0/BI
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 1 9037-41-6/BI
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 (952-92-1/RN)
 1 97009-81-9/BI
 (97009-81-9/RN)
 1 98-92-0/BI
 (98-92-0/RN)
 1 99362-74-0/BI
 (99362-74-0/RN)
 L6 45 (19132-12-8/BI OR 21919-05-1/BI OR 100-39-0/BI OR 106-94-5/BI
 OR 106047-77-2/BI OR 107-08-4/BI OR 109942-74-7/BI OR 1120-71-4/
 BI OR 114554-11-9/BI OR 115503-79-2/BI OR 119643-82-2/BI OR
 126298-92-8/BI OR 141-76-4/BI OR 144-48-9/BI OR 17376-04-4/BI
 OR 17750-23-1/BI OR 17750-24-2/BI OR 218443-88-0/BI OR 218443-90
 -4/BI OR 218443-91-5/BI OR 218443-92-6/BI OR 218443-93-7/BI OR
 4229-56-5/BI OR 51652-08-5/BI OR 52047-79-7/BI OR 53-57-6/BI OR
 5463-59-2/BI OR 58-68-4/BI OR 58880-44-7/BI OR 624-76-0/BI OR
 627-18-9/BI OR 6456-44-6/BI OR 64881-21-6/BI OR 667919-86-0/BI
 OR 7145-37-1/BI OR 72306-81-1/BI OR 75-03-6/BI OR 75-26-3/BI OR
 75-30-9/BI OR 89080-16-0/BI OR 9037-41-6/BI OR 952-92-1/BI OR
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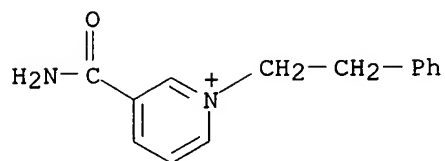
=> d 1-45

L6 ANSWER 1 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **667919-86-0** REGISTRY
 ED Entered STN: 26 Mar 2004
 CN Dehydrogenase, reduced nicotinamide riboside (quinone) (9CI) (CA INDEX
 NAME)
 OTHER NAMES:
 CN Dihydronicotinamide riboside quinone oxidoreductase 2
 CN Dihydronicotinamide riboside quinone reductase 2
 CN Dihydronicotinamide riboside:quinone oxidoreductase
 CN NQO2 oxidoreductase
 CN NRH:quinone oxidoreductase

CN Reduced nicotinamide riboside (quinone) dehydrogenase
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
35 REFERENCES IN FILE CA (1907 TO DATE)
35 REFERENCES IN FILE CAPLUS (1907 TO DATE)

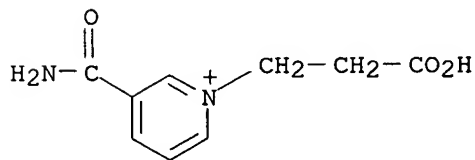
L6 ANSWER 2 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **218443-93-7** REGISTRY
ED Entered STN: 29 Jan 1999
CN Pyridinium, 3-(aminocarbonyl)-1-(2-phenylethyl)-, iodide (9CI) (CA INDEX NAME)
MF C14 H15 N2 O . I
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (761385-40-4)



● I⁻

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **218443-92-6** REGISTRY
ED Entered STN: 29 Jan 1999
CN Pyridinium, 3-(aminocarbonyl)-1-(2-carboxyethyl)-, iodide (9CI) (CA INDEX NAME)
MF C9 H11 N2 O3 . I
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (717820-87-6)

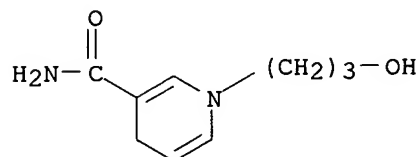


● I⁻

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 4 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

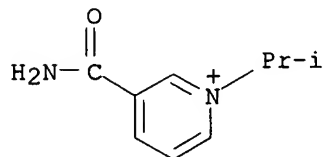
RN 218443-91-5 REGISTRY
 ED Entered STN: 29 Jan 1999
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C9 H14 N2 O2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

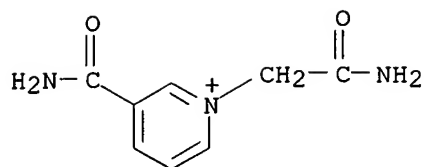
L6 ANSWER 5 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 218443-90-4 REGISTRY
 ED Entered STN: 29 Jan 1999
 CN Pyridinium, 3-(aminocarbonyl)-1-(1-methylethyl)-, bromide (9CI) (CA INDEX NAME)
 MF C9 H13 N2 O . Br
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (745779-44-6)



● Br⁻

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

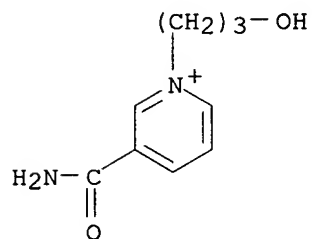
L6 ANSWER 6 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 218443-88-0 REGISTRY
 ED Entered STN: 29 Jan 1999
 CN Pyridinium, 3-(aminocarbonyl)-1-(2-amino-2-oxoethyl)-, iodide (9CI) (CA INDEX NAME)
 MF C8 H10 N3 O2 . I
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (66822-26-2)



● I⁻

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

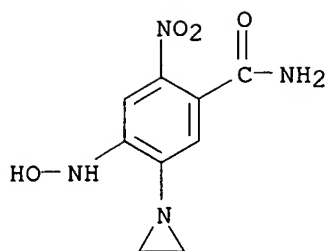
L6 ANSWER 7 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **126298-92-8** REGISTRY
ED Entered STN: 06 Apr 1990
CN Pyridinium, 3-(aminocarbonyl)-1-(3-hydroxypropyl)-, bromide (9CI) (CA INDEX NAME)
MF C9 H13 N2 O2 . Br
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (83643-85-0)



● Br⁻

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

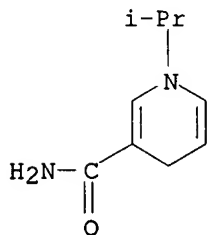
L6 ANSWER 8 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **119643-82-2** REGISTRY
ED Entered STN: 17 Mar 1989
CN Benzamide, 5-(1-aziridinyl)-4-(hydroxyamino)-2-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H10 N4 O4
SR CA
LC STN Files: CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

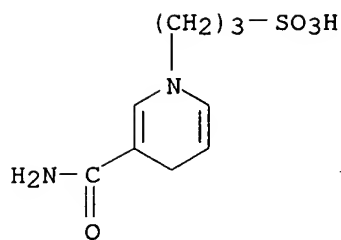
L6 ANSWER 9 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **115503-79-2** REGISTRY
ED Entered STN: 30 Jul 1988
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(1-methylethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H14 N2 O
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

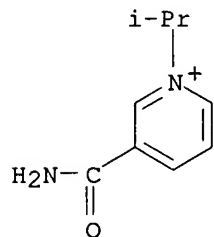
L6 ANSWER 10 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **114554-11-9** REGISTRY
ED Entered STN: 21 May 1988
CN 1(4H)-Pyridinepropanesulfonic acid, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1(4H)-Pyridinepropanesulfonic acid, 3-carbamoyl- (6CI)
FS 3D CONCORD
MF C9 H14 N2 O4 S
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

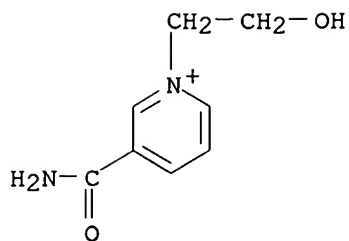
L6 ANSWER 11 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **109942-74-7** REGISTRY
 ED Entered STN: 22 Aug 1987
 CN Pyridinium, 3-(aminocarbonyl)-1-(1-methylethyl)-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3-Carbamoyl-1-isopropylpyridinium iodide (6CI)
 MF C9 H13 N2 O . I
 SR CAOLD
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 CRN (745779-44-6)



● I⁻

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

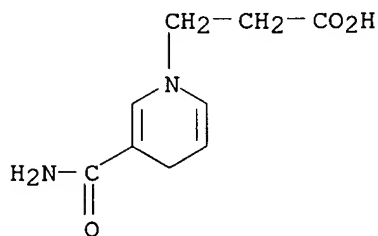
L6 ANSWER 12 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **106047-77-2** REGISTRY
 ED Entered STN: 10 Jan 1987
 CN Pyridinium, 3-(aminocarbonyl)-1-(2-hydroxyethyl)-, iodide (9CI) (CA INDEX NAME)
 MF C8 H11 N2 O2 . I
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (66822-21-7)



● I⁻

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 13 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **99362-74-0** REGISTRY
ED Entered STN: 07 Dec 1985
CN 1(4H)-Pyridinepropanoic acid, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1(4H)-Pyridinepropionic acid, 3-carbamoyl- (6CI)
FS 3D CONCORD
MF C9 H12 N2 O3
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL



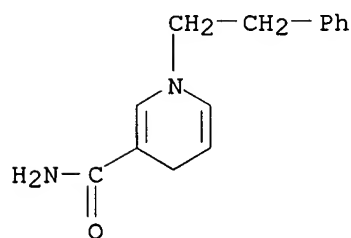
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 14 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **97009-81-9** REGISTRY
ED Entered STN: 01 Jul 1985
CN Pyridinium, 3-(aminocarbonyl)-1-ethyl-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Carbamoyl-1-ethylpyridinium iodide (6CI)
CN Pyridinium, 3-carbamyl-1-ethyl-, iodide (4CI)
MF C8 H11 N2 O . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
CRN (71413-64-4)

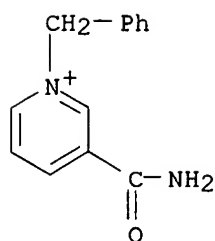


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L6 ANSWER 15 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 89080-16-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(2-phenylethyl)- (9CI) (CA INDEX
NAME)
FS 3D CONCORD
MF C14 H16 N2 O
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
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4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L6 ANSWER 16 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 72306-81-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pyridinium, 3-(aminocarbonyl)-1-(phenylmethyl)-, iodide (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN 1-Benzyl-3-carbamoylpyridinium iodide (6CI, 7CI)
MF C13 H13 N2 O . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, TOXCENTER,
USPATFULL
(*File contains numerically searchable property data)
CRN (16183-83-8)
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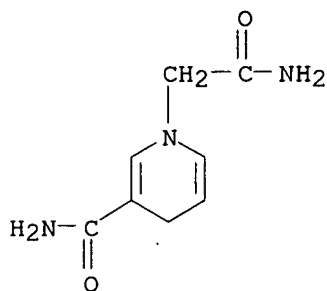


● I⁻

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 17 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **64881-21-6** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 1(4H)-Pyridineacetamide, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1-Carbamoylmethyl-1,4-dihydronicotinamide
 CN Caricotamide
 CN EP 0152R
 FS 3D CONCORD
 MF C8 H11 N3 O2
 LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

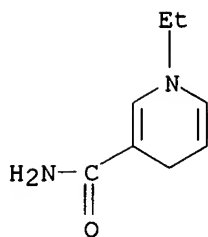


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)
 9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 18 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **58880-44-7** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1-ethyl-1,4-dihydro- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN N-Ethyl-1,4-dihydronicotinamide
 FS 3D CONCORD
 MF C8 H12 N2 O
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 19 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 52047-79-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 3-(aminocarbonyl)-1-propyl-, bromide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyridinium, 3-carbamoyl-1-propyl-, bromide (6CI)

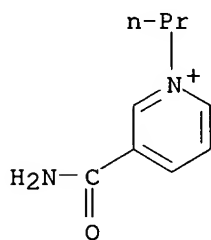
OTHER NAMES:

CN 3-Carbamoyl-1-propylpyridinium bromide

MF C9 H13 N2 O . Br

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

CRN (13309-33-6)



● Br⁻

15 REFERENCES IN FILE CA (1907 TO DATE)

15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 20 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 51652-08-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 3-(aminocarbonyl)-1-(3-sulfopropyl)-, inner salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Carbamoyl-1-(3-sulfopropyl)pyridinium hydroxide, inner salt (6CI)

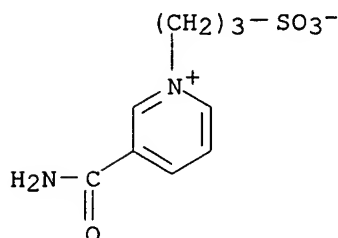
CN Pyridinium, 3-(aminocarbonyl)-1-(3-sulfopropyl)-, hydroxide, inner salt

FS 3D CONCORD

MF C9 H12 N2 O4 S

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, MSDS-OHS,

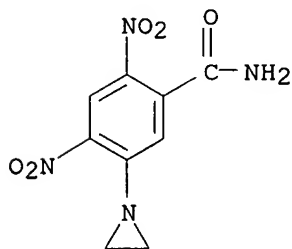
TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
 11 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 21 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **21919-05-1** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzamide, 5-(1-aziridinyl)-2,4-dinitro- (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2,4-Dinitro-5-ethyleneiminobenzamide
 CN 2,4-Dinitroethyleneiminobenzamide
 CN 5-(1-Aziridinyl)-2,4-dinitrobenzamide
 CN 5-Aziridino-2,4-dinitrobenzamide
 CN 5-Aziridinyl-2,4-dinitrobenzamide
 CN CB 1954
 CN NSC 115829
 CN Tretazicar
 MF C9 H8 N4 O5
 LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CIN, DDFU, DRUGU,
 EMBASE, IMSDRUGNEWS, IMSRESEARCH, MEDLINE, PROMT, PROUSDDR, RTECS*,
 TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

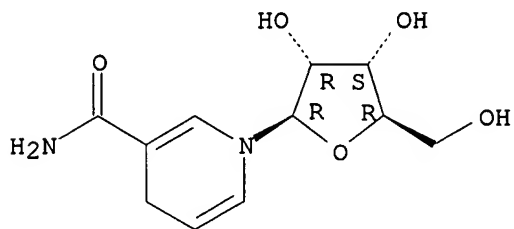


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

168 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 169 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 22 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **19132-12-8** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1- β -D-ribofuranosyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1,4-dihydro-1- β -D-ribofuranosyl- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN β -Reduced nicotinamide ribonucleoside
 CN Reduced nicotinamide riboside
 FS STEREOSEARCH
 MF C11 H16 N2 O5
 CI COM
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

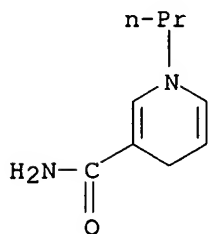
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 16 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

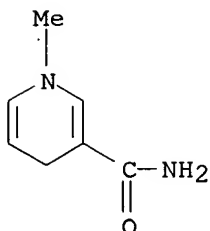
L6 ANSWER 23 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **17750-24-2** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-propyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1,4-dihydro-1-propyl- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 1,4-Dihydro-N1-propylnicotinamide
 CN 1-n-Propyl-1,4-dihydronicotinamide
 CN 1-Propyl-1,4-dihydronicotinamide
 CN N-Propyldihydronicotinamide
 CN N1-(n-Propyl)-1,4-dihydronicotinamide
 FS 3D CONCORD
 MF C9 H14 N2 O
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, HODOC*,
 TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

95 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
95 REFERENCES IN FILE CAPLUS (1907 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 24 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **17750-23-1** REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Nicotinamide, 1,4-dihydro-1-methyl- (6CI, 8CI)
OTHER NAMES:
CN 1,4-Dihydro-1-methylnicotinamide
CN 1,4-Dihydro-N-methylnicotinamide
CN 1-Methyl-1,4-dihydronicotinamide
CN 3-Carbamoyl-1,4-dihydro-1-methylpyridine
CN N-Methyl-1,4-dihydronicotinamide
FS 3D CONCORD
MF C7 H10 N2 O
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
CHEMCATS, IFICDB, IFIPAT, IFIUDB, MEDLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

107 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
107 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 25 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN **17376-04-4** REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzene, (2-iodoethyl)- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (2-Iodoethyl)benzene
CN β -Phenethyl iodide
CN β -Phenylethyl iodide
CN 1-Iodo-2-phenylethane
CN 2-Phenylethyl iodide
CN Phenethyl iodide
FS 3D CONCORD
MF C8 H9 I
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, SPECINFO,
TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)
Other Sources: NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

ICH₂-CH₂-Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

268 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
268 REFERENCES IN FILE CAPLUS (1907 TO DATE)
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

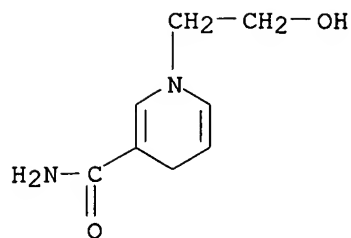
L6 ANSWER 26 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 9037-41-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Reductase, nitro- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2,4,6-Trinitrotoluene nitroreductase
CN 3-Nitrophenol reductase
CN 4-Nitrobiphenyl reductase
CN Aromatic nitroreductase
CN Dinitropyrene nitroreductase
CN Nitrobenzene nitroreductase
CN Nitrobenzene reductase
CN Nitrobenzoic acid reductase
CN Nitrophenol reductase
CN Nitroreductase
CN Nitroreductase (NADH)
CN PETN reductase
CN TNT nitroreductase
MF Unspecified
CI MAN
LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
CAPLUS, CEN, CIN, EMBASE, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

663 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
666 REFERENCES IN FILE CAPLUS (1907 TO DATE)

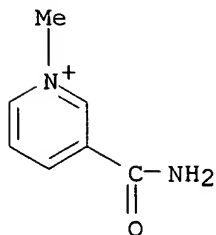
L6 ANSWER 27 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 7145-37-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Nicotinamide, 1,4-dihydro-1-(2-hydroxyethyl)- (7CI, 8CI)
OTHER NAMES:
CN NSC 74259
FS 3D CONCORD
MF C8 H12 N2 O2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 28 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **6456-44-6** REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Pyridinium, 3-(aminocarbonyl)-1-methyl-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3-Carbamoyl-1-methylpyridinium iodide (6CI, 7CI)
 CN Pyridinium, 3-carbamoyl-1-methyl-, iodide (8CI)
 CN Pyridinium, 3-carbamyl-1-methyl-, iodide (4CI)
 OTHER NAMES:
 CN 1-Methylnicotinamide iodide
 CN Nicotinamide methiodide
 MF C7 H9 N2 O . I
 SR CAS EARLY REGISTRATIONS
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*, RTECS*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (3106-60-3)



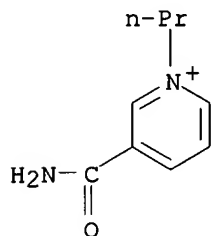
● I⁻

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

104 REFERENCES IN FILE CA (1907 TO DATE)
 104 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 29 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 5463-59-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Pyridinium, 3-(aminocarbonyl)-1-propyl-, iodide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3-Carbamoyl-1-propylpyridinium iodide (6CI, 7CI)
 CN Pyridinium, 3-carbamoyl-1-propyl-, iodide (8CI)
 MF C9 H13 N2 O . I
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, HODOC*, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 CRN (13309-33-6)

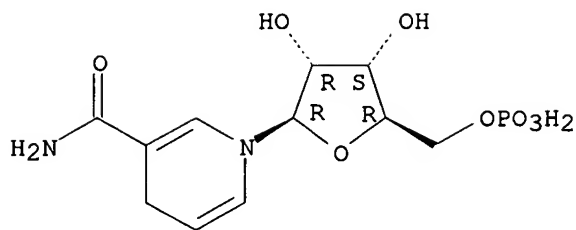


● I⁻

18 REFERENCES IN FILE CA (1907 TO DATE)
 18 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 30 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 4229-56-5 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(5-O-phosphono-β-D-ribofuranosyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Nicotinamide, 1,4-dihydro-1-β-D-ribofuranosyl-, 5'-(dihydrogen phosphate) (8CI)
 CN Nicotinamide, 1,4-dihydro-1-β-D-ribofuranosyl-, 5'-phosphate (7CI)
 OTHER NAMES:
 CN β-NMNH
 CN 1,4-Dihydronicotinamide mononucleotide
 CN 1,4-Dihydronicotinamide ribonucleotide
 CN Nicotinamide ribonucleotide, reduced
 CN NMNH
 CN NMNH2
 CN Reduced nicotinamide mononucleotide
 CN Reduced nicotinamide ribonucleotide
 FS STEREOSEARCH
 MF C11 H17 N2 O8 P
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, CA, CAOLD, CAPLUS, CEN, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

77 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 77 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 31 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 1120-71-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanesulfonic acid, 3-hydroxy-, γ -sultone (6CI)

OTHER NAMES:

CN γ -Propane sultone

CN 1,3-Propane sultone

CN 1,3-Trimethylene sultone

CN 3-Hydroxy-1-propanesulfonic acid γ -sultone

CN 3-Hydroxy-1-propanesulfonic acid sultone

CN NSC 42386

CN Propane sultone

CN Propyl sultone

FS 3D CONCORD

MF C3 H6 O3 S

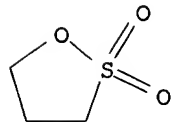
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, ENCOMPAT, ENCOMPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1720 REFERENCES IN FILE CA (1907 TO DATE)
 374 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1723 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 31 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

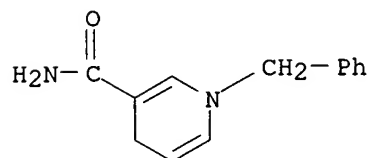
L6 ANSWER 32 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 952-92-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Nicotinamide, 1-benzyl-1,4-dihydro- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 1,4-Dihydro-1-(phenylmethyl)-3-pyridinecarboxamide
CN 1,4-Dihydro-N-benzylnicotinamide
CN 1-Benzyl-1,4-dihydronicotinamide
CN 1-Benzyl-3-carbamido-1,4-dihydropyridine
CN 1-Benzyl-3-carbamoyl-1,4-dihydropyridine
CN BNAH
CN N-Benzyl-1,4-dihydronicotinamide
CN N-Benzyl-3-carbamoyl-1,4-dihydropyridine
CN N-Benzylidihydronicotinamide
CN NSC 26899
FS 3D CONCORD
DR 174307-50-7, 84062-23-7
MF C13 H14 N2 O
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, PIRA, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

582 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
582 REFERENCES IN FILE CAPLUS (1907 TO DATE)
31 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 33 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 627-18-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Propanol, 3-bromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Bromo-3-hydroxypropane
CN 1-Bromo-3-propanol
CN 3-Bromo-1-propanol
CN 3-Bromopropyl alcohol
CN 3-Hydroxypropyl bromide
CN Trimethylene bromohydrin
FS 3D CONCORD
MF C3 H7 Br O
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT,

IFIUDB, NIOSHTIC, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,
USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)

Br-CH₂-CH₂-CH₂-OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1358 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1358 REFERENCES IN FILE CAPLUS (1907 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 34 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 624-76-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanol, 2-iodo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2-Iodoethanol
CN Ethylene iodohydrin
CN Iodoethanol
CN NSC 85227
FS 3D CONCORD
MF C2 H5 I O
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, HODOC*, IFICDB, IFIPAT,
IFIUDB, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,
USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)

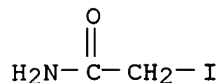
I-CH₂-CH₂-OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

457 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
457 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 35 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 144-48-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetamide, 2-iodo- (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetamide, iodo- (6CI)
OTHER NAMES:
CN α-Iodoacetamide
CN 2-Iodoacetamide
CN Iodoacetamide
CN Monoiodoacetamide
CN NSC 9581
CN Surauto

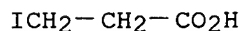
FS 3D CONCORD
 MF C2 H4 I N O
 CI COM
 LC STN Files: AGRICOLA, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB,
 IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*,
 SCISEARCH, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1630 REFERENCES IN FILE CA (1907 TO DATE)
 45 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1631 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 80 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 36 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 141-76-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Propanoic acid, 3-iodo- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Propionic acid, 3-iodo- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN β-Iodopropionic acid
 CN 3-Iodopropanoic acid
 CN 3-Iodopropionic acid
 CN NSC 2124
 FS 3D CONCORD
 MF C3 H5 I O2
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
 CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, HODOC*,
 MSDS-OHS, NIOSHTIC, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



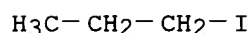
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

180 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 180 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 37 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 107-08-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Propane, 1-iodo- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Iodopropane
CN n-Propyl iodide
CN Propane iodide
CN Propyl iodide
FS 3D CONCORD
MF C3 H7 I
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
CHEMLIST, CHEMSAFE, CSCHEM, DETHERM*, DIPPR*, EMBASE, GMELIN*, HODOC*,
IFICDB, IFIPAT, IFIUDB, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA,
PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2,
USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3145 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3153 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 38 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

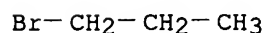
RN **106-94-5** REGISTRY

ED Entered STN: 16 Nov 1984

CN Propane, 1-bromo- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Bromopropane
CN 1-Propyl bromide
CN Ascusol MC
CN Leksol
CN n-Propyl bromide
CN Propyl bromide
FS 3D CONCORD
MF C3 H7 Br
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*,
EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, PS, RTECS*,
SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4152 REFERENCES IN FILE CA (1907 TO DATE)
46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

4158 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 39 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 100-39-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzene, (bromomethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Toluene, α -bromo- (8CI)
OTHER NAMES:
CN (Bromomethyl)benzene
CN (Bromophenyl)methane
CN α -Bromotoluene
CN ω -Bromotoluene
CN Benzyl bromide
CN NSC 8041
CN Phenylmethyl bromide
FS 3D CONCORD
MF C7 H7 Br
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
CHEMLIST, CIN, CSCHEM, DETHERM*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB,
IFIPAT, IFIUDB, MEDLINE, MRCK*, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS,
RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

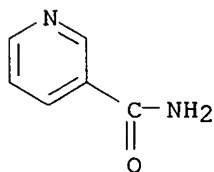
Ph-CH₂-Br

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13497 REFERENCES IN FILE CA (1907 TO DATE)
101 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13535 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 40 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN 98-92-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Pyridinecarboxamide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Nicotinamide (8CI)
OTHER NAMES:
CN β -Pyridinecarboxamide
CN 3-(Aminocarbonyl)pyridine
CN 3-Amidopyridine
CN 3-Carbamoylpyridine
CN 3-Pyridinecarboxylic acid amide
CN Aminicotin
CN Benicot
CN Delonin Amide
CN Dipearyl
CN m-(Aminocarbonyl)pyridine
CN NAM
CN Niacinamide
CN Niavit PP
CN Nicamina
CN Nicamindon

CN Nicasir
 CN Nicobion
 CN Nicofort
 CN Nicosan 2
 CN Nicosylamide
 CN Nicotilamide
 CN Nicotine acid amide
 CN Nicotinic acid amide
 CN Nicotinic amide
 CN Nicotylamide
 CN Nicovit
 CN Nicovitina
 CN Nictoamide
 CN Niocinamide
 CN Niozymin
 CN NSC 13128
 CN NSC 27452
 CN Papulex
 CN Pelmin
 CN Pelmine
 CN Pelonin amide
 CN Vi-Nicotyl
 CN Vitamin B
 CN Vitamin B3
 FS 3D CONCORD
 DR 123574-63-0, 37321-14-5, 78731-47-2
 MF C6 H6 N2 O
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
 CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
 CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
 NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS*, SPECINFO,
 TOXCENTER, USAN, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

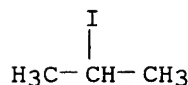


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9025 REFERENCES IN FILE CA (1907 TO DATE)
 402 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 9036 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 41 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 75-30-9 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Propane, 2-iodo- (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1-Methylethyl iodide
 CN 2-Iodopropane

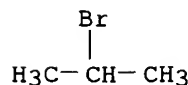
CN 2-Propyl iodide
 CN Isopropyl iodide
 CN sec-Propyl iodide
 FS 3D CONCORD
 MF C3 H7 I
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CSCHEM, DETHERM*, DIPPR*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2866 REFERENCES IN FILE CA (1907 TO DATE)
 7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2877 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 42 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 75-26-3 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Propane, 2-bromo- (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2-Bromopropane
 CN Isopropyl bromide
 CN sec-Propyl bromide
 FS 3D CONCORD
 MF C3 H7 Br
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3333 REFERENCES IN FILE CA (1907 TO DATE)
 15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3340 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 43 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 75-03-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Ethane, iodo- (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Ethyl iodide
 CN Hydriodic ether
 CN Iodoethane
 CN Monoiodoethane
 CN NSC 8825
 FS 3D CONCORD
 MF C2 H5 I
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE,
 ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN*, HODOC*, IFICDB,
 IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA,
 PROMT, PS, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

H₃C-CH₂-I

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

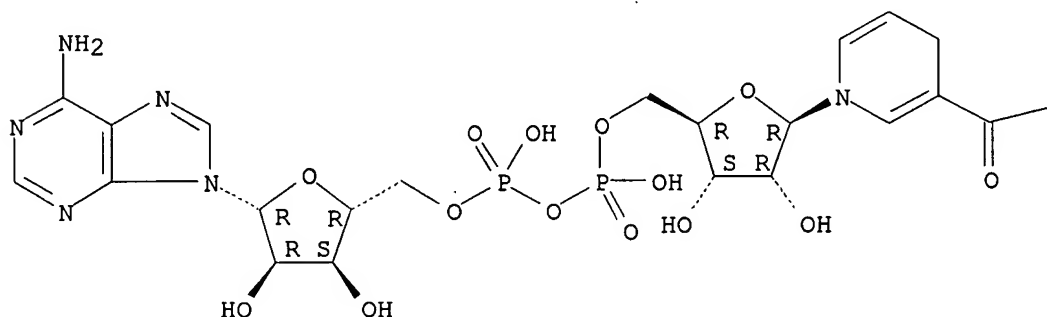
6769 REFERENCES IN FILE CA (1907 TO DATE)
 73 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6781 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 44 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 58-68-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1,4-dihydro-1-β-D-ribofuranosyl-3-pyridinecarboxamide (9CI) (CA
 INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Adenosine 5'-(trihydrogen pyrophosphate), 5'→5'-ester with
 1,4-dihydro-1-β-D-ribofuranosylnicotinamide (8CI)
 CN Adenosine pyrophosphate, 5'→5'-ester with 1,4-dihydro-1-β-D-
 ribofuranosylnicotinamide (7CI)
 OTHER NAMES:
 CN β-DPNH
 CN β-NADH
 CN 1,4-Dihydronicotinamide adenine dinucleotide
 CN Codehydrase I, reduced
 CN Codehydrogenase I, reduced
 CN Coenzyme I, reduced
 CN Cozymase I, reduced
 CN Dihydrocodehydrogenase I
 CN Dihydrocozymase
 CN Dihydronicotinamide adenine dinucleotide
 CN Dihydronicotinamide mononucleotide
 CN DPNH
 CN ENADA
 CN NADH
 CN NADH2
 CN Nicotinamide-adenine dinucleotide, reduced

CN Reduced codehydrogenase I
 CN Reduced diphosphopyridine nucleotide
 CN Reduced nicotinamide adenine diphosphate
 CN Reduced nicotinamide-adenine dinucleotide
 FS STEREOSEARCH
 DR 443892-10-2
 MF C21 H29 N7 O14 P2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST,
 CIN, CSChem, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB,
 MRCK*, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH₂

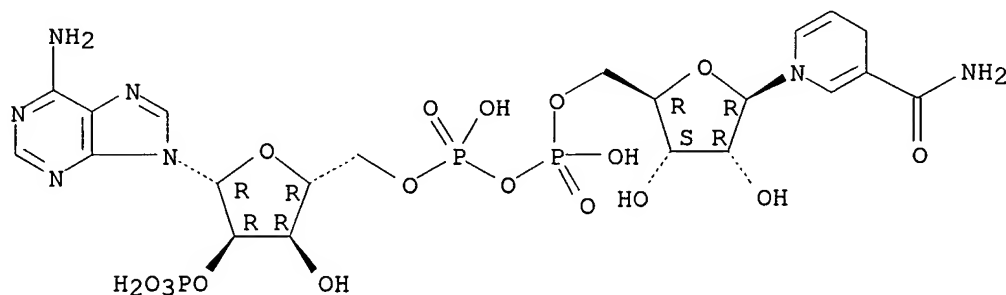
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13555 REFERENCES IN FILE CA (1907 TO DATE)
 263 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 13563 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 45 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 53-57-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate),
 P'→5'-ester with 1,4-dihydro-1-β-D-ribofuranosyl-3-
 pyridinecarboxamide (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Adenosine, 2'-(dihydrogen phosphate) 5'-(trihydrogen pyrophosphate),
 5'→5'-ester with 1,4-dihydro-1-β-D-ribofuranosylnicotinamide
 (8CI)
 OTHER NAMES:
 CN β-NADPH
 CN β-Nicotinamide-adenine-dinucleotide-phosphoric acid
 CN β-TPNH

CN 51: PN: WO2004076659 FIGURE: 7 claimed sequence
 CN Codehydrase II, reduced
 CN Codehydrogenase II, reduced
 CN Coenzyme II, reduced
 CN Cozymase II, reduced
 CN Dihydrocodehydrogenase II
 CN NADPH
 CN NADPH2
 CN Nicotinamide-adenine dinucleotide phosphate, reduced
 CN Reduced codehydrogenase II
 CN Reduced nicotinamide adenine dinucleotide phosphate
 CN Reduced triphosphopyridine nucleotide
 CN TPNH
 CN Triphosphopyridine nucleotide, reduced
 FS STEREOSEARCH
 DR 22046-90-8, 3545-01-5
 MF C21 H30 N7 O17 P3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST,
 CIN, CSCHM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*,
 NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11178 REFERENCES IN FILE CA (1907 TO DATE)
 231 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 11189 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 57 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
87.70	102.37

FULL ESTIMATED COST

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FILE LAST UPDATED: 2 Jan 2006 (20060102/ED)

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FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

L1 1 S US 20030086933/PN
L2 20735 S RN
L3 93 S CB () 1954
L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006

L5 2902 S L2

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006

SEL RN L1

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006

L6 45 S E1-E45

FILE 'CAPLUS' ENTERED AT 16:09:35 ON 03 JAN 2006

=> s l6

L7 62737 L6

=> s l7 and l3

L8 87 L7 AND L3

=> s l7 (L) l3

L9 65 L7 (L) L3

=> s NQo2

L10 73 NQO2

=> s l10 and l9

L11 5 L10 AND L9

=> d ibib 1-5

L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:301733 CAPLUS

DOCUMENT NUMBER: 141:306746

TITLE: Quinone reductase-mediated nitro-reduction: clinical applications

AUTHOR(S): Knox, Richard J.; Chen, Shiuan

CORPORATE SOURCE: Enact Pharma PLC, Salisbury, SP4 0JQ, UK

SOURCE: Methods in Enzymology (2004), 382(Quinones and Quinone Enzymes, Part B), 194-221

CODEN: MENZAU; ISSN: 0076-6879

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:749515 CAPLUS
DOCUMENT NUMBER: 140:121861
TITLE: CB 1954: From the Walker tumor to NQO2 and
VDEPT
AUTHOR(S): Knox, Richard J.; Burke, Philip J.; Chen, Shiuan;
Kerr, David J.
CORPORATE SOURCE: Enact Pharma PLC, Salisbury, UK
SOURCE: Current Pharmaceutical Design (2003), 9(26), 2091-2104
CODEN: CPDEFP; ISSN: 1381-6128
PUBLISHER: Bentham Science Publishers Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 97 THERE ARE 97 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:835107 CAPLUS
DOCUMENT NUMBER: 139:414
TITLE: Improved cancer treatment with enzyme technology
CORPORATE SOURCE: Enact Pharma, Enact Pharma plc, Salisbury, SP4 0JQ, UK
SOURCE: sp2 (2002), 1(8), 22, 24-25
CODEN: SPSUCF; ISSN: 1476-184X
PUBLISHER: Avakado Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:597759 CAPLUS
DOCUMENT NUMBER: 133:275962
TITLE: Bioactivation of 5-(aziridin-1-yl)-2,4-
dinitrobenzamide (CB 1954) by human NAD(P)H quinone
oxidoreductase 2: a novel co-substrate-mediated
antitumor prodrug therapy
AUTHOR(S): Knox, Richard J.; Jenkins, Terence C.; Hobbs, Stephen
M.; Chen, Shiuan; Melton, Roger G.; Burke, Philip J.
CORPORATE SOURCE: Enact Pharma Plc, Salisbury, SP4 0JQ, UK
SOURCE: Cancer Research (2000), 60(15), 4179-4186
CODEN: CNREA8; ISSN: 0008-5472
PUBLISHER: American Association for Cancer Research
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:9725 CAPLUS
DOCUMENT NUMBER: 130:76160
TITLE: NAD(P)H:quinone reductase 2- and prodrug-based
therapeutic systems
INVENTOR(S): Burke, Philip John; Knox, Richard John
PATENT ASSIGNEE(S): Enzacta R & D Limited, UK
SOURCE: PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9857662	A2	19981223	WO 1998-GB1731	19980615
WO 9857662	A3	19990812		
W: CA, GB, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2292608	AA	19981223	CA 1998-2292608	19980615
GB 2341605	A1	20000322	GB 1999-28237	19980615
GB 2341605	B2	20020220		
EP 988059	A2	20000329	EP 1998-929555	19980615
EP 988059	B1	20051207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
GB 2365338	A1	20020220	GB 2001-26082	19980615
GB 2365338	B2	20020403		
JP 2002511754	T2	20020416	JP 1999-503953	19980615
EP 1468698	A2	20041020	EP 2004-76964	19980615
EP 1468698	A3	20050323		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
US 6867231	B1	20050315	US 2000-445865	20000211
HK 1023069	A1	20021011	HK 2000-102240	20000413
HK 1041824	A1	20021115	HK 2002-103701	20000413
US 2003086933	A1	20030508	US 2002-99830	20020313
PRIORITY APPLN. INFO.:			GB 1997-12370	A 19970614
			EP 1998-929555	A3 19980615
			GB 1999-28237	A3 19980615
			WO 1998-GB1731	W 19980615
			US 2000-445865	A1 20000211

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L3 93 S CB () 1954
L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006

L5 2902 S L2

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006

SEL RN L1

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006

L6 45 S E1-E45

FILE 'CAPLUS' ENTERED AT 16:09:35 ON 03 JAN 2006

L7 62737 S L6
L8 87 S L7 AND L3
L9 65 S L7 (L) L3
L10 73 S NQO2
L11 5 S L10 AND L9

=> s NQO1

L12 505 NQO1

=> s l12 and l9
L13 3 L12 AND L9

=> d ibib 1-3

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:301733 CAPLUS
DOCUMENT NUMBER: 141:306746
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AUTHOR(S): Knox, Richard J.; Chen, Shiuan
CORPORATE SOURCE: Enact Pharma PLC, Salisbury, SP4 0JQ, UK
SOURCE: Methods in Enzymology (2004), 382(Quinones and Quinone Enzymes, Part B), 194-221
CODEN: MENZAU; ISSN: 0076-6879
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
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L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:749515 CAPLUS
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AUTHOR(S): Knox, Richard J.; Burke, Philip J.; Chen, Shiuan; Kerr, David J.
CORPORATE SOURCE: Enact Pharma PLC, Salisbury, UK
SOURCE: Current Pharmaceutical Design (2003), 9(26), 2091-2104
CODEN: CPDEFP; ISSN: 1381-6128
PUBLISHER: Bentham Science Publishers Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
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L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:597759 CAPLUS
DOCUMENT NUMBER: 133:275962
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AUTHOR(S): Knox, Richard J.; Jenkins, Terence C.; Hobbs, Stephen M.; Chen, Shiuan; Melton, Roger G.; Burke, Philip J.
CORPORATE SOURCE: Enact Pharma Plc, Salisbury, SP4 0JQ, UK
SOURCE: Cancer Research (2000), 60(15), 4179-4186
CODEN: CNREA8; ISSN: 0008-5472
PUBLISHER: American Association for Cancer Research
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s DT () diaphorase
34025 DT
558 DTS
34532 DT
(DT OR DTS)
6506 DIAPHORASE
629 DIAPHORASES
6719 DIAPHORASE

(DIAPHORASE OR DIAPHORASES)

L14 1030 DT (W) DIAPHORASE

=> s l14 and l9

L15 21 L14 AND L9

=> s l15 not py>1997

7856621 PY>1997

L16 14 L15 NOT PY>1997

=> s l16 not py>1996

8617286 PY>1996

L17 13 L16 NOT PY>1996

=> d ibib 1-5

L17 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:794027 CAPLUS

DOCUMENT NUMBER: 123:275328

TITLE: Bioactivation of dinitrobenzamide mustards by an E. coli B nitroreductase

AUTHOR(S): Anlezark, G. M.; Melton, R. G.; Sherwood, R. F.; Wilson, W. R.; Denny, W. A.; Palmer, B. D.; Knox, R. J.; Friedlos, F.; Williams, A.

CORPORATE SOURCE: Cent. Appl. Microbiol. Res., Porton Down/Salisbury/Wilts., SP4 0JG, UK

SOURCE: Biochemical Pharmacology (1995), 50(5), 609-18
CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

L17 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:569763 CAPLUS

DOCUMENT NUMBER: 123:106083

TITLE: Catalytic properties of NAD(P)H:quinone acceptor oxidoreductase: study involving mouse, rat, human, and mouse-rat chimeric enzymes

AUTHOR(S): Chen, Shiuan; Knox, Richard; Lewis, Alexander D.; Friedlos, Frank; Workman, Paul; Deng, Paulis S. K.; Fung, Maisie; Ebenstein, Donna; Wu, Kebin; Tsai, Ta-Ming

CORPORATE SOURCE: Div. Immunol., Beckman Res. Inst. City Hope, Duarte, CA, 91010, USA

SOURCE: Molecular Pharmacology (1995), 47(5), 934-9
CODEN: MOPMA3; ISSN: 0026-895X

PUBLISHER: Williams & Wilkins

DOCUMENT TYPE: Journal

LANGUAGE: English

L17 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:44858 CAPLUS

DOCUMENT NUMBER: 120:44858

TITLE: The bioactivation of CB 1954 and its use as a prodrug in antibody-directed enzyme prodrug therapy (ADEPT)

AUTHOR(S): Knox, Richard J.; Friedlos, Frank; Boland, Marion P.

CORPORATE SOURCE: Sec. Drug Dev., Inst. Cancer Res., Sulton/Surrey, SM2 5NG, UK

SOURCE: Cancer and Metastasis Reviews (1993), 12(2), 195-212
CODEN: CMRED4; ISSN: 0167-7659

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

L17 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:73228 CAPLUS
DOCUMENT NUMBER: 118:73228
TITLE: Potentiation of CB 1954 cytotoxicity by reduced
pyridine nucleotides in human tumor cells by
stimulation of **DT diaphorase**
activity
AUTHOR(S): Friedlos, Frank; Biggs, Patrick J.; Abrahamson, Julie
A.; Knox, Richard J.
CORPORATE SOURCE: Sect. Drug Dev., Inst. Cancer Res., Sutton/Surrey, SM2
5NG, UK
SOURCE: Biochemical Pharmacology (1992), 44(9), 1739-43
CODEN: BCPCA6; ISSN: 0006-2952
DOCUMENT TYPE: Journal
LANGUAGE: English

L17 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:598410 CAPLUS
DOCUMENT NUMBER: 117:198410
TITLE: Metabolism of NAD(P)H by blood components. Relevance
to bioreductively activated prodrugs in a targeted
enzyme therapy system
AUTHOR(S): Friedlos, Frank; Knox, Richard J.
CORPORATE SOURCE: Sect. Drug Dev., Inst. Cancer Res., Sutton/Surrey, SM2
5NG, UK
SOURCE: Biochemical Pharmacology (1992), 44(4), 631-5
CODEN: BCPCA6; ISSN: 0006-2952
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d kwic 2

L17 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AB NAD(P)H:quinone acceptor oxidoreductase (quinone reductase) (**DT-
diaphorase**, EC 1.6.99.2) is involved in the process of reductive
activation of cytotoxic antitumor quinones and nitrobenzenes. This study
initially examined. . .
IT **21919-05-1, CB 1954** 114560-48-4, EO9
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(catalytic properties of NAD(P)H:quinone acceptor oxidoreductase: study
involving mouse, rat, human, and mouse-rat chimeric enzymes)

=> s 21919-05-1/rn
169 21919-05-1
5 21919-05-1D
L18 167 21919-05-1/RN
(21919-05-1 (NOTL) 21919-05-1D)

=> d his

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FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

L1 1 S US 20030086933/PN
L2 20735 S RN
L3 93 S CB () 1954
L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006

L5 2902 S L2

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006
SEL RN L1

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006
L6 45 S E1-E45

FILE 'CAPLUS' ENTERED AT 16:09:35 ON 03 JAN 2006
L7 62737 S L6
L8 87 S L7 AND L3
L9 65 S L7 (L) L3
L10 73 S NQO2
L11 5 S L10 AND L9
L12 505 S NQO1
L13 3 S L12 AND L9
L14 1030 S DT () DIAPHORASE
L15 21 S L14 AND L9
L16 14 S L15 NOT PY>1997
L17 13 S L16 NOT PY>1996
L18 167 S 21919-05-1/RN

=> d kwic 4

L18 ANSWER 4 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN
IT 51-21-8, 5-FU 21919-05-1, CB1954 23214-92-8, Doxorubicin
33069-62-4, Paclitaxel 123948-87-8, Topotecan
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(inhibition of NF- κ B enhances the cytotoxicity of virus-directed
enzyme prodrug therapy and oncolytic adenovirus cancer gene therapy)

=> d ibib 6-10

L18 ANSWER 6 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:465003 CAPLUS
DOCUMENT NUMBER: 143:159026
TITLE: Nitroarylmethylcarbamate prodrugs of doxorubicin for
use with nitroreductase gene-directed enzyme prodrug
therapy
AUTHOR(S): Hay, Michael P.; Wilson, William R.; Denny, William A.
CORPORATE SOURCE: Auckland Cancer Society Research Centre, Faculty of
Medical and Health Sciences, The University of
Auckland, Auckland, 92019, N. Z.
SOURCE: Bioorganic & Medicinal Chemistry (2005), 13(12),
4043-4055
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:1050014 CAPLUS
DOCUMENT NUMBER: 142:253968
TITLE: The gene suicide system NTR/CB1954 causes ablation of
differentiated 3T3L1 adipocytes by apoptosis
AUTHOR(S): Felmer, Ricardo N.; Clark, John A.
CORPORATE SOURCE: Department of Gene Expression and Development, Roslin
Institute, Roslin, Midlothian, EH25 9PS, UK
SOURCE: Biological Research (2004), 37(3), 449-460
CODEN: BESEEB; ISSN: 0716-9760

PUBLISHER: Society of Biology of Chile
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:1040532 CAPLUS
DOCUMENT NUMBER: 142:253408
TITLE: Nitroreductase: A prodrug-activating enzyme for cancer
gene therapy
AUTHOR(S): Searle, Peter F.; Chen, Ming-Jen; Hu, Longqin; Race,
Paul R.; Lovering, Andrew L.; Grove, Jane I.; Guise,
Chris; Jaberipour, Mansooreh; James, Nicholas D.;
Mautner, Vivien; Young, Lawrence S.; Kerr, David J.;
Mountain, Andrew; White, Scott A.; Hyde, Eva I.
CORPORATE SOURCE: Cancer Research UK Institute for Cancer Studies,
University of Birmingham, Edgbaston, UK
SOURCE: Clinical and Experimental Pharmacology and Physiology
(2004), 31(11), 811-816
CODEN: CEXPB9; ISSN: 0305-1870
PUBLISHER: Blackwell Publishing Asia Pty Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:965067 CAPLUS
DOCUMENT NUMBER: 141:406039
TITLE: Combinations for the treatment of diseases involving
cell proliferation, migration or apoptosis of myeloma
cells, or angiogenesis
INVENTOR(S): Hilberg, Frank; Solca, Flavio; Stefanic, Martin
Friedrich; Baum, Anke; Munzert, Gerd; Van Meel,
Jacobus C. A.
PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany;
Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.
SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096224	A2	20041111	WO 2004-EP4363	20040424
WO 2004096224	A3	20041216		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1473043	A1	20041103	EP 2003-9587	20030429
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			

PRIORITY APPLN. INFO.:	EP 2003-9587	A 20030429
	EP 2004-508	A 20040113
	EP 2004-1171	A 20040121

L18 ANSWER 10 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:941577 CAPLUS

DOCUMENT NUMBER: 142:253791

TITLE: Virus-directed enzyme prodrug therapy: intratumoral administration of a replication-deficient adenovirus encoding nitroreductase to patients with resectable liver cancer

AUTHOR(S): Palmer, Daniel H.; Mautner, Vivien; Mirza, Darius; Oliff, Simon; Gerritsen, Winald; van der Sijp, Joost R. M.; Hubscher, Stefan; Reynolds, Gary; Bonney, Sarah; Rajaratnam, Ratna; Hull, Diana; Horne, Mark; Ellis, John; Mountain, Andrew; Hill, Simon; Harris, Peter A.; Searle, Peter F.; Young, Lawrence S.; James, Nicholas D.; Kerr, David J.

CORPORATE SOURCE: Cancer Research UK Institute for Cancer Studies, Department of Pathology and Liver Research Laboratories, University of Birmingham, Edgbaston, Birmingham, UK

SOURCE: Journal of Clinical Oncology (2004), 22(9), 1546-1552
CODEN: JCONDN; ISSN: 0732-183X

PUBLISHER: American Society of Clinical Oncology

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 16:03:45 ON 03 JAN 2006)

FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

L1 1 S US 20030086933/PN
L2 20735 S RN
L3 93 S CB () 1954
L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006

L5 2902 S L2

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006

SEL RN L1

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006

L6 45 S E1-E45

FILE 'CAPLUS' ENTERED AT 16:09:35 ON 03 JAN 2006

L7 62737 S L6
L8 87 S L7 AND L3
L9 65 S L7 (L) L3
L10 73 S NQO2
L11 5 S L10 AND L9
L12 505 S NQO1
L13 3 S L12 AND L9
L14 1030 S DT () DIAPHORASE
L15 21 S L14 AND L9
L16 14 S L15 NOT PY>1997
L17 13 S L16 NOT PY>1996
L18 167 S 21919-05-1/RN

=> d 117 ibib kwic 4

L17 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:73228 CAPLUS

DOCUMENT NUMBER: 118:73228

TITLE: Potentiation of CB 1954 cytotoxicity by reduced pyridine nucleotides in human tumor cells by stimulation of **DT diaphorase** activity

AUTHOR(S): Friedlos, Frank; Biggs, Patrick J.; Abrahamson, Julie A.; Knox, Richard J.

CORPORATE SOURCE: Sect. Drug Dev., Inst. Cancer Res., Sutton/Surrey, SM2 5NG, UK

SOURCE: Biochemical Pharmacology (1992), 44(9), 1739-43
CODEN: BCPA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Potentiation of CB 1954 cytotoxicity by reduced pyridine nucleotides in human tumor cells by stimulation of **DT diaphorase** activity

AB The toxicity of CB 1954 [5-(aziridin-1-yl)-2,4-dinitrobenzamide] towards human cells was greatly enhanced by NADH (when fetal calf serum was present in the culture medium) and by nicotinamide riboside (reduced) (NRH), but not by nicotinate riboside (reduced). Co-treatment of human cells with CB 1954 and NADH resulted in the formation of crosslinks in their DNA. The toxicity produced by other DNA crosslinking agents was unaffected by reduced nicotinamide compds. When caffeine was included in the medium, a reduction in the cytotoxicity of CB 1954 occurred. The toxicity experienced by human cell lines after exposure to CB 1954 and NADH was proportional to their levels of the enzyme **DT diaphorase** [NAD(P)H dehydrogenase (quinone), (EC 1.6.99.2.)]. It is concluded that NRH, which the authors have shown to be a co-factor for rat **DT diaphorase** (Friedlos et al., Biochem Pharmacol 44; 25-31, 1992), is generated from NADH by enzymes in fetal calf serum, and stimulates the activity of human **DT diaphorase** towards CB 1954.

ST CB 1954 cytotoxicity reduced pyridine nucleotide; **DT diaphorase** CB 1954 cytotoxicity NADH

IT 58-68-4, NADH 110-86-1D, Pyridine, reduced nucleotides 1341-23-7 17720-18-2

RL: BIOL (Biological study)
(cytotoxicity of **CB 1954** potentiation by, **DT diaphorase** stimulation in, in human cells)

IT 21919-05-1, **CB 1954**

RL: PRP (Properties)
(cytotoxicity of, reduced pyridine nucleotides enhancement of, **DT diaphorase** stimulation in, in human cells)

=> d 117 kwic 1-13

L17 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB . . . terms of ADEPT, SN 23862 has a potential advantage over CB 1954 in that it is not reduced by mammalian **DT diaphorases**. Therefore, a series of compds. related to SN 23862 has been synthesized, and evaluated as potential prodrugs both by determination. . . cytotoxicity in

presence of enzyme and cofactor were not substrates for the enzyme. None of the analogs were activated by **DT diaphorase** isolated from Walter 256 carcinoma cells. For those compds. which were substrates for the E. coli nitroreductase, there was a . . .

IT 50-07-7, Mitomycin C 443-48-1, Metronidazole 4533-39-5, Nitracrine 13551-87-6, Misonidazole 20063-73-4, Nitracrine N-oxide

21919-05-1, CB 1954 27314-97-2, Tirapazamine
 55743-71-0, SN 23163 136990-96-0, SN 24771 142439-52-9, SN 23428
 142439-53-0, SN 23759 142439-56-3, SN 23849 142439-57-4, SN 23777
 142439-61-0, SN 23862 142439-62-1, SN 23856 142439-63-2, SN 23816
 150271-87-7, SN 24927 150271-88-8, SN 24928 150271-89-9, SN 24926
 150271-91-3, SN 24939 150271-92-4, SN 24935 150271-93-5, SN 25015
 150271-94-6, SN 24971 150271-95-7, SN 25066 150271-96-8, SN 25079
 150271-98-0, SN 25263 150271-99-1, SN 25260 150272-00-7, SN 25261
 150272-01-8, SN 25313 150272-02-9, SN 25084 150272-03-0, SN 25188
 150503-17-6, SN 25246 156423-03-9, SN 25293 169527-43-9, SN 25402
 169527-44-0, SN 25507

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (bioactivation of dinitrobenzamide mustards by E. coli B nitroreductase)

L17 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB NAD(P)H:quinone acceptor oxidoreductase (quinone reductase) (**DT-diaphorase**, EC 1.6.99.2) is involved in the process of reductive activation of cytotoxic antitumor quinones and nitrobenzenes. This study initially examined. . .

IT 21919-05-1, CB 1954 114560-48-4, EO9

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (catalytic properties of NAD(P)H:quinone acceptor oxidoreductase: study involving mouse, rat, human, and mouse-rat chimeric enzymes)

L17 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB . . . in insensitive cells. Crosslink formation is due to the aerobic reduction of CB 1954 to form 5-(aziridin-1-yl)-4-hydroxylamino-2-nitrobenzamide by the enzyme **DT diaphorase**. The 4-hydroxylamine can not crosslink DNA directly but requires further activation by a non-enzymic reaction with a thioester (such as acetyl CoA). As predicted from their measured **DT diaphorase** activities, a number of rat hepatoma and hepatocyte cell lines are also sensitive to CB 1954. However, no CB 1954-sensitive. . . human origin have been found. This is because the rate of reduction of CB 1954 by the human form of **DT diaphorase** is much lower than that of the Walker enzyme (ratio of Kcat = 6.4). To overcome this intrinsic resistance of. . . (ADEPT). A nitroreductase enzyme has been isolated from E. coli that can bioactivate CB 1954 much more rapidly than Walker **DT diaphorase** and is very suitable for ADEPT. Thus CB 1954 may have a role in the therapy of human tumors.

IT 21919-05-1, CB 1954

RL: BIOL (Biological study)
 (bioactivation of and use in antibody-directed enzyme prodrug therapy)

L17 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

TI Potentiation of CB 1954 cytotoxicity by reduced pyridine nucleotides in human tumor cells by stimulation of **DT diaphorase** activity

AB . . . experienced by human cell lines after exposure to CB 1954 and NADH was proportional to their levels of the enzyme **DT diaphorase** [NAD(P)H dehydrogenase (quinone), (EC 1.6.99.2)]. It is concluded that NRH, which the authors have shown to be a co-factor for rat **DT diaphorase** (Friedlos et al., Biochem Pharmacol 44; 25-31, 1992), is generated from NADH by enzymes in fetal calf serum, and stimulates the activity of human **DT diaphorase** towards CB 1954.

ST CB 1954 cytotoxicity reduced pyridine nucleotide; **DT diaphorase** CB 1954 cytotoxicity NADH

IT 58-68-4, NADH 110-86-1D, Pyridine, reduced nucleotides

1341-23-7 17720-18-2

RL: BIOL (Biological study)

(cytotoxicity of **CB 1954** potentiation by,
DT diaphorase stimulation in, in human cells)

IT 21919-05-1, **CB 1954**

RL: PRP (Properties)

(cytotoxicity of, reduced pyridine nucleotides enhancement of,
DT diaphorase stimulation in, in human cells)

L17 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB . . . from human, fetal calf and horse sources was capable of driving the bioreductive activation of **CB 1954** by the enzyme **DT diaphorase**. Cell surfaces oxidized NADH or NRH. These observations suggest that NAD(P)H would be unsuitable as a source of reducing equivalent. . .

IT 21919-05-1, **CB 1954**

RL: BIOL (Biological study)

(prodrug, bioreductive activation of, NADPH suitability for)

L17 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

IT Alkylating agents, biological

Cytotoxic agents

(**CB 1954**, DNA adducts and crosslinking by, in Walker 256 tumor cells,
DT diaphorase bioactivation in relation to)

IT Deoxyribonucleic acids

RL: RCT (Reactant); RACT (Reactant or reagent)

(crosslinking of, with **CB 1954**, in Walker 256 tumor cells, **DT diaphorase** bioactivation and cytotoxic activity in relation to)

IT Animal cell line

(Walker carcinosarcoma, **CB 1954** bioactivation by **DT diaphorase** in, cytotoxic activity and DNA adduct formation and crosslinking in relation to)

IT Deoxyribonucleic acids

RL: BIOL (Biological study)

(adducts, with **CB 1954**, in Walker 256 tumor cells, **DT diaphorase** bioactivation and cytotoxicity in relation to)

IT Pharmaceutical dosage forms

(prodrugs, **CB 1954** as, in Walker 256 tumor cells, **DT diaphorase** activation and cytotoxic activity in relation to)

IT 21919-05-1, **CB 1954**

RL: BIOL (Biological study)

(DNA adduct and interstrand crosslink formation, in Walker 256 cells,
DT diaphorase bioactivation and cytotoxicity in relation to)

L17 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

TI The differences in kinetics of rat and human **DT**

diaphorase result in a differential sensitivity of derived cell lines to **CB 1954** (5-(aziridin-1-yl)-2,4-dinitrobenzamide) [Erratum to document cited in CA115(1):332c].

ST Erratum aziridinyldinitrobenzamide tumor sensitivity **DT**

diaphorase

IT Neoplasm inhibitors

((aziridinyldinitrobenzamide as, tumor sensitivity to, in humans and laboratory animals, **DT diaphorase** kinetics in relation to (Erratum))

IT 119643-82-2

RL: FORM (Formation, nonpreparative)

(formation of, from **CB 1954**, **DT diaphorase** of humans and laboratory animals induction of (Erratum))

IT 21919-05-1

RL: BIOL (Biological study)

(tumor sensitivity to, of humans and laboratory animals, **DT**

diaphorase kinetics in relation to (Erratum))

L17 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB . . . the active form of CB 1954 (5-(aziridin-1-yl)-2,4-dinitrobenzamide). This hydroxylamine is formed by the bioedn. of CB 1954 by the enzyme **DT diaphorase** and accounts for the highly selective cytotoxicity of this compound. The reason why the hydroxylamine derivative is so cytotoxic is. . .

IT 9032-20-6, **DT Diaphorase**

RL: BIOL (Biological study)

(CB 1954 bioactivation by, DNA interstrand crosslinking from, thioesters in, cytotoxicity in relation to)

IT 21919-05-1, **CB 1954**

RL: BIOL (Biological study)

(bioactivation of, DNA-DNA interstrand crosslinking in, thioesters in)

IT 119643-82-2

RL: BIOL (Biological study)

(reaction with DNA of, as **CB 1954** metabolite, thioesters effect on, cytotoxicity in relation to)

L17 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB . . . cells defective or proficient in excision repair or repair of double strand breaks and/or with normal or reduced levels of **DT-diaphorase** activity is reported to investigate the toxicity of a variety of bioreductive agents under both aerobic and hypoxic conditions. The. . . for any one agent, may differ markedly under aerobic and hypoxic conditions. The studies also show that while the enzyme **DT-diaphorase** plays a major role in determining mitomycin C (MM-C) toxicity under aerobic conditions, this is not true for hypoxic conditions.. . .

IT 9032-20-6, **DT-diaphorase**

RL: BIOL (Biological study)

(Chinese hamster cell mutants deficient in, bioreductive agents effect on)

IT 21919-05-1, **CB-1954** 27314-97-2, SR-4233

88876-88-4, RSU-1069

RL: BIOL (Biological study)

(DNA repair- and reduction-deficient Chinese hamster cell mutants response to)

L17 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

TI The differences in kinetics of rat and human **DT diaphorase** result in a differential sensitivity of derived cell lines to CB 1954 (5-(aziridin-1-yl)-2,4-dinitrobenzamide)

AB **DT diaphorase** (NAD(P)H dehydrogenase (quinone), EC 1.6.99.2) isolated from Walker 256 rat carcinoma cells can convert CB 1954 to a cytotoxic DNA. . . CB 1954 when compared with other cells which are unable to carry out this reduction. As predicted from their measured **DT diaphorase** activities a number of rat hepatoma and hepatocyte cell lines were also shown to be sensitive to CB 1954. However, no CB 1954-sensitive cell lines of human origin were found, although levels of **DT diaphorase** similar to those in the sensitive rat cells were present in these cells. The human cells were as sensitive as rat cells to the active form of CB 1954 (5-(aziridin-1-yl)-4-hydroxylamino-2-nitrobenzamide). **DT diaphorase**, purified to homogeneity from human Hep G2 cells, did metabolize CB 1954 to this 4-hydroxylamino product, but the rate of. . . 6.4). In addition, CB 1954 could be considered an inhibitor of, rather than a substrate for, the human form of **DT diaphorase**. The purified rat and human **DT diaphorases** possessed otherwise similar biochem. and mol. properties. These findings explain the decreased sensitivity towards CB 1954 of human cell lines. . .

ST aziridinyldinitrobenzamide tumor sensitivity **DT**

diaphorase kinetics

IT Neoplasm inhibitors
((aziridiny)l)dinitrobenzamide as, tumor sensitivity to, in humans and laboratory animals, **DT diaphorase** kinetics in relation to)

IT **119643-82-2**
RL: FORM (Formation, nonpreparative)
(formation of, from **CB 1954**, **DT diaphorase** of humans and laboratory animals induction of)

IT **21919-05-1, CB 1954**
RL: BIOL (Biological study)
(tumor sensitivity to, of humans and laboratory animals, **DT diaphorase** kinetics in relation to)

L17 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

TI Caffeine, aminoimidazolecarboxamide and dicoumarol, inhibitors of NAD(P)H dehydrogenase (quinone) (**DT diaphorase**), prevent both the cytotoxicity and DNA interstrand crosslinking produced by 5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB 1954) in Walker cells

IT **21919-05-1, CB 1954**
RL: BIOL (Biological study)
(neoplasm inhibition by and DNA crosslinking from, NAD(P)H dehydrogenase inhibition in relation to)

L17 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB . . . as estimated by SDS-polyacrylamide gel electrophoresis, was isolated from Walker cells and identified as a form of NAD(P)H dehydrogenase (quinone) (**DT diaphorase**, EC 1.6.99.2). This enzyme, in the presence of NADH or NADPH, catalyzed the aerobic reduction of CB 1954 to 5-(aziridin-1-yl)-4-hydroxylamino-2-nitrobenzamide.. . .

IT **119643-82-2**
RL: FORM (Formation, nonpreparative)
(formation of, as **CB 1954** antitumor metabolite)

IT **21919-05-1, CB 1954**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(neoplasm inhibition by, DNA crosslinking by metabolite in)

L17 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

AB . . . of its 4-nitro group to the corresponding hydroxylamino species. The enzyme was identified as a form of NAD(P)H dehydrogenase (quinone) (**DT diaphorase**, menadione reductase (NMOR), phylloquinone reductase, quinone reductase, EC 1.6.99.2) by comparison of partial protein sequences, coenzymes, substrate and inhibitor specificities,. . .

IT **21919-05-1, CB 1954**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(neoplasm inhibition by, NADPH dehydrogenase activation of)

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L19 1 1341-23-7/RN

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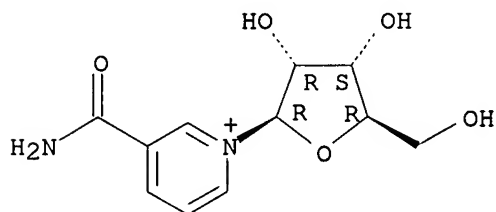
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L19 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
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NAME)
OTHER CA INDEX NAMES:
CN Pyridinium, 3-carbamoyl-1- β -D-ribofuranosyl- (8CI)
OTHER NAMES:
CN 3-Pyridinecarboxamide, 1- β -D-ribosyl-
CN Nicotinamide ribonucleoside
CN Nicotinamide ribose
CN Nicotinamide riboside

CN Ribosylnicotinamide
 FS STEREOSEARCH
 DR 19131-72-7, 20299-13-2
 MF C11 H15 N2 O5
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 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 74 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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